

1. Adam has 18 pens in his backpack. There are 6 red, 4, blue, and 8 black pens. Adam randomly selects 1 pen from the backpack. His friend Milly then randomly selects 1 pen from the remaining pens in the backpack. What is the probability that Adam selects a red pen and Milly selects a black pen?

A. $\frac{4}{27}$

B. $\frac{8}{51}$

C. $\frac{7}{9}$

D. $\frac{41}{51}$